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TITLE: PROCESS FOR AFFORDING HYDROPHILIC PROPERTY TO  
HYDROPHOBIC POROUS FILM

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ABSTRACT:

PURPOSE: To afford hydrophilic property to hydrophobic porous film without accompanying decrease of water permeability with the lapse of time by placing hydrophobic porous film in ozone atmosphere at &le;80&deg;C, then treating with polyol soln.

CONSTITUTION: Hydrophobic porous film which is as it is impermeable for liquid having high surface tension such as aq. soln. unless high pressure is applied, is used. The film is exposed at &le;80&deg;C for 1sec&sim;2hr in atmosphere having 0.001&sim;3vol% ozone concn. Thus, hydrophilis

groups such as OH, CO, COOH, are formed on the surface of fine pores. Within 3hr after the ozone treatment, the film is treated further with soln. of polyol having 90&sim;10,000 mol.wt. such as glycerin, polyethylene glycol, etc. The polyol is used as 10&sim;80% concn. soln. by dissolving the polyol in a solvent having low viscosity and surface tension such as alcohol, acetone, etc.

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